

EPA Region 5 Records Ctr.



379524

GRANVILLE SOLVENTS SITE REMOVAL ACTION QUARTERLY REPORT

OCTOBER 1998

Pursuant to the requirement set forth in the Administrative Order on Consent (AOC, September 7, 1994) between the U.S. EPA and the Granville Solvents Site (GSS) Potentially Responsible Parties (PRP) Group in Section 2.5 - Reporting and the letter dated November 14, 1996, from Ms. Diane Spencer (U.S. EPA), this report constitutes the Quarterly written progress report concerning actions undertaken pursuant to the AOC.

I. PROGRESS MADE DURING REPORTING PERIOD

Source Area Groundwater Control

The groundwater pumping and treatment system operated 744 hours in July, 740 hours in August, and 718 hours in September, for a total of 2,202 hours (99.7% of the total time available) during the third quarter of 1998. The treatment system processed approximately 12.05 million gallons of water in July, 12.21 million gallons of water in August, and 11.20 million gallons of water in September for a total of 35.46 million gallons of water for the third quarter of 1998. Since operation began, the system has processed more than 482.4 million gallons of water. Scheduled monthly maintenance was performed on the treatment system to ensure peak operation. This maintenance included: replacement of the bag filters, lubrication of the motors, and maintenance of the control panel and level sensors. On July 1, 1998, iron oxide build-up was removed by washing the air stripper with an acid solution resulting in an increase in the VOC removal efficiency.

Water samples were collected from the system's influent and effluent sampling ports on July 15, August 19, and September 16, 1998. Samples were also collected on September 30, 1998, for Volatile Organic Compounds (VOCs) because the laboratory did not meet the required holding times for the VOC samples collected on September 16, 1998. The analytical results are presented in Table 1.

TABLE 1

VOCs	Influent July	Effluent July	Influent August	Effluent August	Influent September	Effluent September
1,1,1-trichloroethane	30.4 ug/l	0.57 ug/l	13.8 ug/l	0.34 ug/l	25 ug/l	ND
cis-1,2-dichloroethene	8.6 ug/l	1.0 ug/l	4.5 ug/l	0.44 ug/l	4.9 ug/l	ND
tetrachloroethane	31.4 ug/l	0.75 ug/l	24.3 ug/l	0.39 ug/l	24.5 ug/l	ND
trichloroethene	51.5 ug/l	2.4 ug/l	31.3 ug/l	1.1 ug/l	32.3 ug/l	0.41 ug/l
1,1-dichloroethane	ND	ND	0.38 ug/l	ND	0.35 ug/l	ND
carbon tetrachloride	ND	ND	ND	ND	ND	ND

Extraction well GSS-EW1 was operated at an average flow rate of approximately 155 gallons per minute (gpm) during the third quarter of 1998. The flow rate from GSS-EW2 fluctuated between 105 120 gpm over the quarter. The total pumping rate has averaged 260 gpm for the third quarter of 1998.

The results of the sample analyses listed in Table 1 represent typical influent and effluent concentrations at the GSS, and it has been recorded that approximately 35.46 million gallons of water were processed. Based on these data, total VOCs of approximately 0.47 lbs/day in July, 0.33 lbs/day in August, and 0.34 lbs/day in September were discharged to the atmosphere during this reporting period.

Groundwater Monitoring Plan

Groundwater level measurements were collected on July 15, August 19, and September 16, 1998, as specified in the Groundwater Monitoring Plan and will be used to develop potentiometric surface maps. A quarterly sampling event for VOCs was conducted in August 1998.

Source Area Soils

A meeting was held on August 28, 1998 with the GSS PRP Technical Committee, the U.S. EPA, and Ohio EPA to discuss U.S. EPA's comments on the EE/CA and Groundwater Flow and Contaminant Fate and Transport Model Report.

The Engineering Evaluation/Cost Analysis (EE/CA) and the Groundwater Flow and Contaminant Fate and Transport Model Report are currently being revised to reflect Agency comments.

Active or Completed Tasks

The following specific tasks were completed during the reporting period:

- . Collected water samples on July 15, August 19, and September 16, and September 30, 1998, from the treatment system influent and effluent sampling ports.
- . Collected water level measurements on July 15, August 19, and September 16, 1998.
- . Acid-washed air stripper on July 1, 1998.

II. DELIVERABLES (THIS PERIOD AND NEXT PERIOD)

CURRENT PERIOD:

<u>Deliverable</u>	<u>Due Date</u>	<u>Delivered</u>
Quarterly Report	October 7, 1998	October 7, 1998

NEXT PERIOD:

<u>Deliverable</u>	<u>Due Date</u>	<u>Delivered</u>
Quarterly Report	January 7, 1999	

**III. DIFFICULTIES ENCOUNTERED AND
REMEDIAL ACTIONS TAKEN THIS PERIOD**

Gradual decrease in pumping efficiency in EW-2. Pump replaced June 23, 1998.

IV. ANTICIPATED ACTIVITIES DURING NEXT REPORTING PERIOD

During the next reporting period, the following tasks are scheduled to be performed:

- Collect potentiometric surface data.
- Conduct semi-annual sampling of the groundwater monitoring wells.
- Sample treatment system influent and effluent water.
- Scheduled maintenance of the treatment system.
- Acid-wash the air stripper.
- Re-vise the EE/CA and the Groundwater Flow and Contaminant Fate and Transport Model Report.

Facsimile Transmittal

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